

ABSTRACT

A method for detecting misfiring in an internal combustion engine by analysing the angular acceleration of the drive shaft, in which the value of the angular acceleration is estimated at predetermined angular positions of the drive shaft, the absolute value of the angular acceleration is compared with a predetermined threshold value, and the presence of a misfire is detected if the absolute value of the angular acceleration is greater than the predetermined threshold value; when the presence of a misfire is detected, a set of values of the angular acceleration subsequent to the value of the angular acceleration at which the misfire has been detected is filtered to eliminate the oscillation component generated by the misfire with respect to the value of the angular acceleration.

(Figure 1)